

## Recovery Plan Action Status

**Plan Name:** Green-blossom Pearly Mussel

**Plan Status:** Final

**Plan Date:** 09-Jul-84

**Lead Agency:** USFWS

**Lead Office:** Tennessee Ecological Services Field Office

(615-528-6481)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	1	1.1	Continue to utilize existing legislation and regulations to protect species and habitat.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Other: Regulations	Internal Field Assistance	Task costs have not been estimated for this plan. This species exists with other listed mussels in the same river systems. Thus, a task aimed at this species will benefit others. Rather than attempting to apportion the costs to each species, recovery tasks will be estimated at a later date when the plans are combined on a watershed basis for implementation.
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	3	1.2.1	Determine species' present distribution and status.	Not Started			Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	2	1.2.2	Characterize habitat and determine essential elements.	Not Started			Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	2	1.2.3	Determine the extent of preferred habitat and present information in a manner which identifies areas in need of special attention.	Not Started			Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	Task 1.2.4 is included in this.
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	1	1.3.1	Determine present and foreseeable threats to species.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	Tasks 1.3.2 and 1.3.3 are included in this.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	2	1.3.4	Determine measures needed to minimize threats and implement where needed to meet recovery.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, TN and VA Nature Conservancy, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	2	1.4.1	Solicit help in protecting species and essential habitat.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, TN and VA Nature Conservancy, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	Tasks 1.4.2, 1.4.3, and 1.4.4 are included in this.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	2	1.4.5	Develop and utilize information and education program (slide/tape shows, brochures, etc.) for local distribution.	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, TN and VA Nature Conservancy, Virginia Commission of Game and Inland Fisheries	Other: Information and Education	Internal Field Assistance	Task duration is one year for development and then continual implementation.
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	2	1.5	Investigate the use of Scenic River Status, mussel sanctuaries, land acquisitions, and/or other means to protect the habitat.	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, TN and VA Nature Conservancy, Virginia Commission of Game and Inland Fisheries	Acquisition: Easement, Acquisition: Fee Title	Internal Field Assistance	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	3	2.1	Survey rivers within species' historic range to determine availability of suitable transplant sites.	Not Started			Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	Task 2.2 is included in this.
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	3	2.3	Determine best method of establishing new populations.	Not Started			Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	Tasks 2.1 - 2.3 may not be required if other populations are found in task 1.2.1
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	3	2.4	Reestablish populations within historic range as needed to meet recovery.	Not Started			Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	3	2.5	Implement same protective measures for these reestablished populations as for known populations.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, TN and VA Nature Conservancy, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	1	3	Conduct life history studies on a need-to-know basis.	Not Started			Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	3	4	Determine the number of individuals required to maintain a viable population.	Not Started			Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	These studies will be developed and carried out where there is a specific need for data necessary to reach recovery.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	3	5	Investigate the need for habitat improvement and implement only where needed to meet recovery objective.	Not Started			Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	2	6	Develop and implement a monitoring program.	Not Started			Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, Virginia Commission of Game and Inland Fisheries	Work type not yet selected	Labor type not yet selected	
Green blossom (pearlymussel) (Epioblasma torulosa gubernaculum)	2	7	Annual assessment of recovery program and modify where needed.	Ongoing Current	Prior to FY 1995		Tennessee Valley Authority , Tennessee Wildlife Resources Agency , USFWS Regional Office 5, Tennessee Heritage Program, USFWS Regional Office 4, U.S. Fish and Wildlife Service - Endangered Species Program, TN and VA Nature Conservancy, Virginia Commission of Game and Inland Fisheries	Management: Planning	Internal Field Assistance	